

FIBJS同步大法实践

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内容

- 同步写法Demo
- fibjs如何创建web服务器
- 并行处理
- 后台异步运算
- 长连接
- 热升级
- fibjs错误处理

同步写法DEMO

- 文件读取

```
var fs = require("fs");  
var file = fs.readFile('path');  
console.log(file);
```

- 数据库操作

```
var rows = connection.execute(sql);  
if(rows[0].type === "sth")  
    rows = connection.execute(sql1);  
  
console.log(rows[0].result);
```

- http请求

```
var http = require("http");  
var d = http.get("http://baoz.cn").readAll().toString();  
console.log(d);
```


创建WEB服务器

- 静态文件服务

```
var http = require('http');
var svr = new http.Server(8080, http.fileHandler('./'));
svr.run();
```

- 动态服务

```
var http = require('http');
var svr = new http.Server(8080, function(r){
    r.response.write('Hello, World!');
});
svr.run();
```

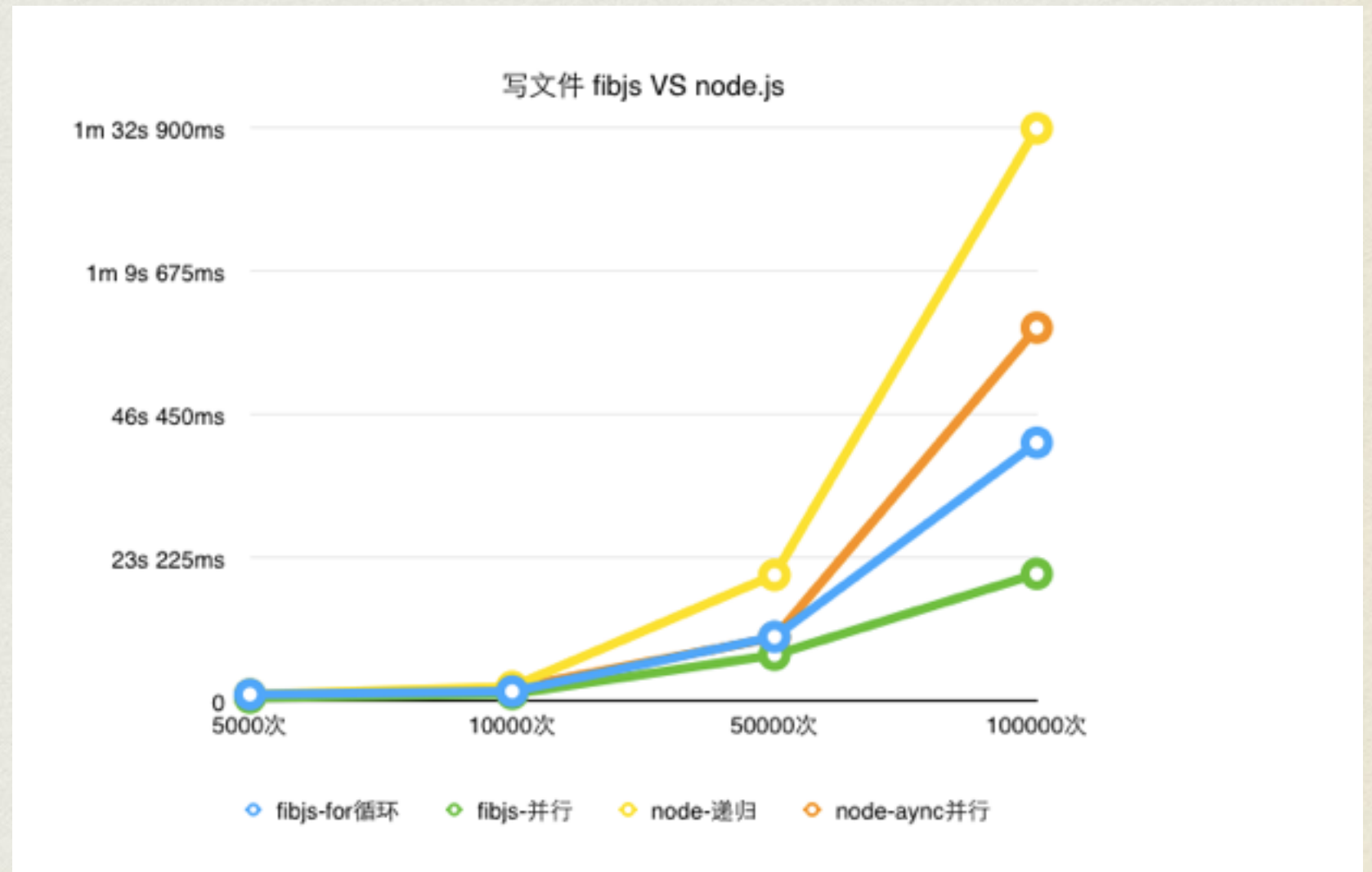
- 动静混合

```
var http = require('http');
var mq = require('mq');
var svr = new http.Server(8080, new mq.Routing({
    '^/f(/.*)': http.fileHandler('./'),
    '^/i(/.*)': function(r) {
        r.response.write('Hello, World!');
    }
}));
svr.run();
```


并行处理

- 作用：利用多核，提升效率。

- 一个不严谨的测试：



后台异步运算

- 作用：释放主线程，更快的响应请求。

```
var coroutine = require("coroutine");
var data = [1,2,3,4,5];
(function(){
    while (true) {
        if(!data.length) break;
        coroutine.sleep(1000);
        console.log(data.pop());
    }
}).start().join();
```


长连接

```
var http = require("http");
var notify = require("notify");

var svr = new http.Server(8080, notify);
svr.crossDomain = true;
svr.run();
```

server.js

notify.js

```
var mq = require("mq");
var coroutine = require("coroutine");
var tm = 1000;

function getTime() {
    return /\d+:\d+:\d+/.exec(new Date() + "")[0];
}

function asyncSend(r, value) {
    var aw = r.aw;
    r.aw = undefined;
    (function() {
        r.response.write(value || "");
        aw.end();
    }).start();
}

function notify(req) {
    req.aw = mq.await();
    (function() {
        coroutine.sleep(tm);
        var t = getTime();
        console.log(t);
        asyncSend(req, t);
    }).start();
    return req.aw;
}

module.exports = notify;
```


热升级

```
var mq = require("mq");

var _ver = new Date() + "";
_ver = /\d+:\d+:\d+/.exec(_ver)[0];

module.exports = mq.jsHandler(function(req) {
    req.response.write(_ver);
});
```

web.js

```
var http = require("http");
var vm = require("vm");
var coroutine = require("coroutine");

function new_web() {
    return new vm.Sandbox({
        mq: require("mq")
    }).require("./web.js");
}

var svr = new http.Server(8080, new_web());
svr.crossDomain = true;

(function() {
    while (true) {
        coroutine.sleep(1000);
        svr.handler = new_web();
    }
}).start();

svr.run();
```

server.js

错误处理

```
try{  
  }catch(e){  
  }finally{  
  }
```


健壮性

```
var http = require('http');
http.createServer(function(req, res) {
  res.end('Hello, World!');
  sasgdfagfasdfk
}).listen(8080);
```

Node.js

```
var http = require('http');
var svr = new http.Server(8080, function(r){
  r.response.write('Hello, World!');
  sasgdfagfasdfk;
});
svr.run();|
```

fibjs

“Thank You.”

-zhuanghengfei